5th grade GT math

Unit 8 Project

Mini Golf Madness

Captain Jim’s Mini Golf has asked you and your team to redo four of their putt-putt golf holes. First, however, they are looking for some designs and cost estimates. You must complete the following tasks using your group’s Google account.

Task 1: (30%)

* Using the Drawing Application, you will each need to design one hole for your course. You may choose to assign certain holes to certain group members.

Hole 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hole 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hole 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hole 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Holes need to include the following:
  + At least two different shapes
  + The hole
  + The starting mat
* Holes may also include an obstacle. The example uses a windmill. You can search for photos of obstacles on Google.

You will be graded on this portion of your assignment using the rubric below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 3 | 1 |
| Drawing | Drawing includes all required elements and is quality work. | Drawing includes all required elements but is sloppy or poorly organized. | Drawing does not include all required elements. |
| Labeling | All necessary labels are provided. | Some of the labels are provided. | No labels are provided. |

Task 2: (30%)

Captain Jim has asked that you redo the edging around each hole.

You will need to do the following:

* Create a Google Document to explain your work
* Show the process you underwent to find the amount of edging you will need.

You will be scored on this portion of your assignment using the rubric below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 3 | 1 |
| Mathematics/  Calculations | Your work shows that you understand the mathematics and all calculations are correct | Most of your calculations are correct. | Your calculations are incorrect and show little understanding of the mathematics. |
| Presentation |  | The document is clear and easy to follow. | The presentation is hard to follow. |

Task 3: (30%)

Captain Jim has also asked that you redo the carpeting for each hole.

You will need to do the following:

* Continue with your Google Document to explain your work.
* Explain the process you underwent to find the amount of carpeting needed.

You will be scored on this portion of your assignment using the rubric below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 3 | 1 |
| Mathematics/  Calculations | Your work shows that you understand the mathematics and all calculations are correct | Most of your calculations are correct. | Your calculations are incorrect and show little understanding of the mathematics. |
| Presentation |  | The document is clear and easy to follow. | The presentation is hard to follow. |

Task 4: (10%)

Captain Jim wants to know what this project is going to cost.

You will need to do the following:

* Continue with your Google Document to explain your work.
* Use the following prices to find the total cost of the project:
  + Carpet = $1.49 per square foot
  + Edging = $2.29 per yard
  + Obstacles = $24.99 each
  + Don’t worry about the mats because Captain Jim will re-use his old ones and place them on top of the carpet.

You will be scored on this portion of your assignment using the rubric below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 3 | 1 |
| Mathematics/  Calculations | Your work shows that you understand the mathematics and all calculations are correct | Most of your calculations are correct. | Your calculations are incorrect and show little understanding of the mathematics. |
| Presentation |  | The document is clear and easy to follow. | The presentation is hard to follow. |